

# EXCALIBUR INTERNATIONAL

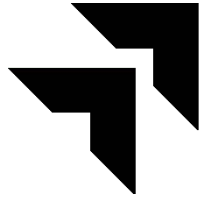
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## Annex A.1 - Marine Amphibious Vehicle Technical Specification



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## MAV

### MARINE AMPHIBIOUS VEHICLE WITH EXCEPTIONAL CARGO CAPACITY

The majority of the vehicle is based on easily available components that fulfill military standards.

#### PROVEN CONCEPT

MAV is a unique amphibious tracked armoured vehicle designed for transport of 2 crew and a unit of 22-24 troops, according to chosen configuration. The vehicle complies to Level 1 protection of NATO STANAG 4569.

#### HUGE TRANSPORT CAPACITY

The immense 22 sqm of cargo space can accommodate up to 24 sitting persons or cargo of up to 6 tons.

#### FULLY AMPHIBIOUS = EXCEPTIONAL MOBILITY

Road, rough terrain, river or even sea with waves up to 1.25 m - the vehicle gets its cargo everywhere it is needed safely and quickly.

#### POWERFUL WINCH

The MAV is equipped with a winch for loading of cargo boxes or special pieces of equipment.

The MAV is a new high-capacity heavy-duty tracked amphibious transporter. It boasts an immense and protected cargo capacity while fully amphibious. Its robust and innovative design make it a perfect solution for securing high mobility in the most difficult conditions in terrain and water alike.

It can be used for transport of **up to 24 persons or various cargo and special equipment of up to 6 tons**, as well as rescuing people from flooded or other hard to reach areas. An **optional RCWS with a 7.62 or 12.7 mm caliber machine gun or a 40 mm grenade launcher** can be installed on the cab roof.

It is very useful for militaries and also rescue forces for transport roles, rescue or diving operations. The concept is proven for breaching operations for combat engineers, various difficult supply tasks as well as rescue operations in flooded areas.

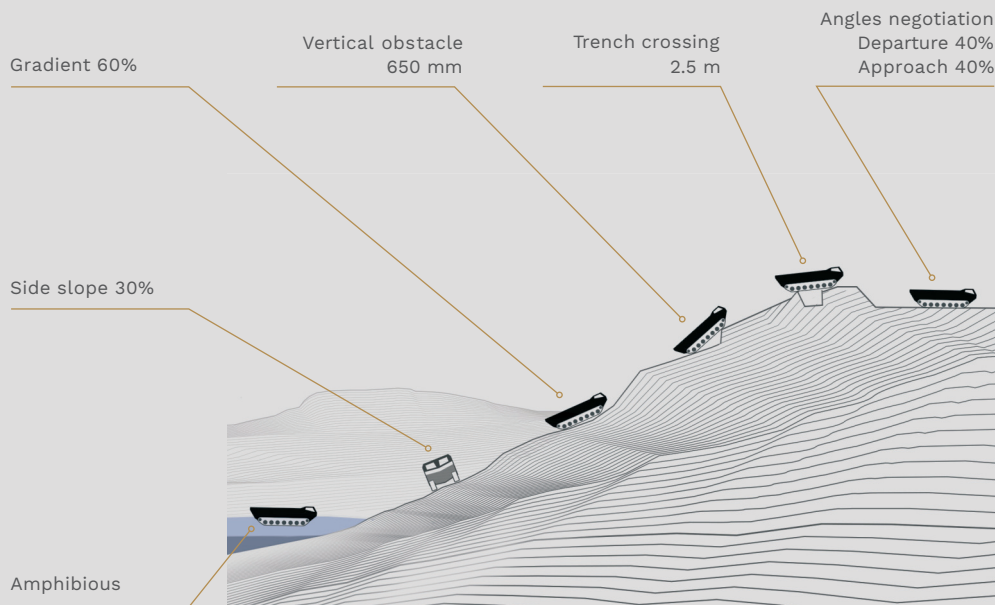
#### RELIABLE POWERTRAIN

A robust engine is connected to a transfer box and powerful hydrostatic drive system that transfers the 390 kW of power to the tracks and innovative reactive water jets.





## PARAMETERS

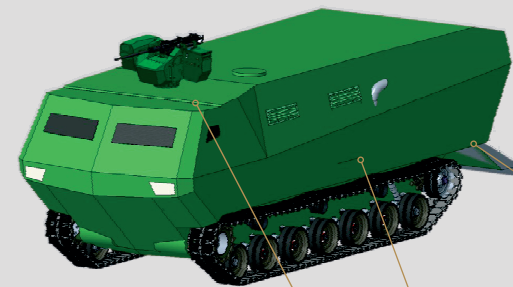
dimensions	L	10,500 mm
	W	3,300 mm
	H	3,100 mm
	cargo space	2,800 x 7,800 mm
engine	type	diesel
	output	390 kW
mobility	fording depth	1,900 mm, then fully amphibious
	vertical obstacle	650 mm
	trench crossing	2,500 mm



## SPECIFIC PARAMETERS\*

	EMPTY 	FULLY LOADED 
total weight	24 t	31 t
cargo weight	0 t	11 t
top speed - on road	40 km/h	27 km/h
top speed - off road	22 km/h	13 km/h
top speed - swimming	11 km/h	7 km/h
cruising range - on road	400 km	300 km
cruising range - off road	250 km	150 km
ground clearance	430 mm	370 mm
gradient	60 %	40 %

\*) Preliminary data, parameters will be confirmed after all tests are finished.



Innovative reactive water jets allow excellent reverse operability and pivot rotation of the vehicle, making it highly maneuverable in water operations.

The crew cabin is equipped with an air-conditioning unit, comfortable seats with pneumatic suspension and simple and intuitive controls.

**DRAINAGE SYSTEM**  
The vehicle is equipped with three powerful pumping units if drainage is necessary.

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